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(54) **METHOD AND APPARATUS FOR TREATING PELVIC PAIN**

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See application file for complete search history.

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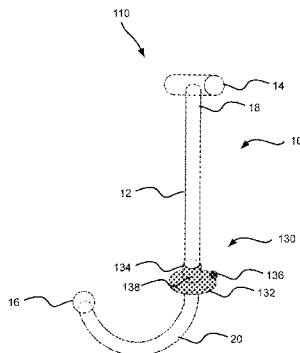
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(57)

ABSTRACT

A method and apparatus for treating self-treating internal muscles and trigger points related to pelvic pain in women and men. The apparatus includes a rod having a handle attached to a straight portion at a first end of the rod and a pressure applicator attached to a second end of the rod, where a first curved portion is disposed between the straight portion of the rod and the second end of the rod. In the method of the present invention, a trigger point is located in the patient's pelvic floor, the patient inserts the apparatus either vaginally or rectally to allow contact of the pressure applicator of the apparatus with the pelvic floor, and pressure is applied to the trigger point using the apparatus.

14 Claims, 9 Drawing Sheets



US 9,402,778 B2

Page 2

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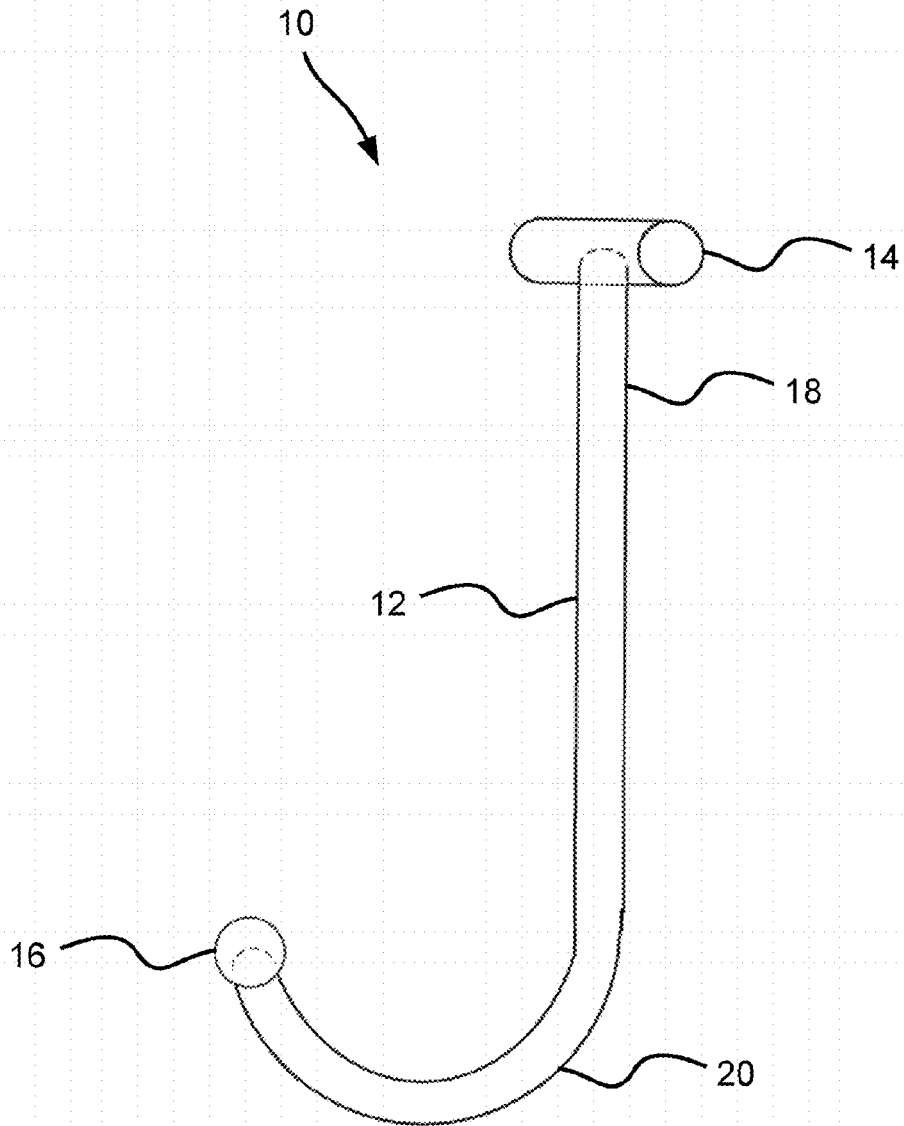


FIG. 1

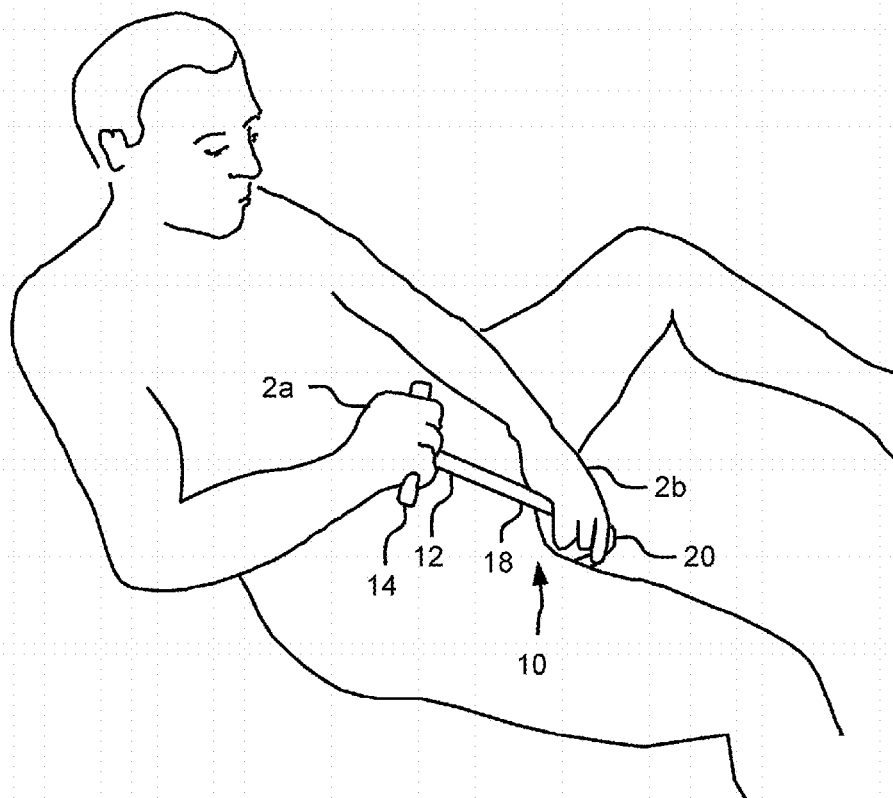


FIG. 2

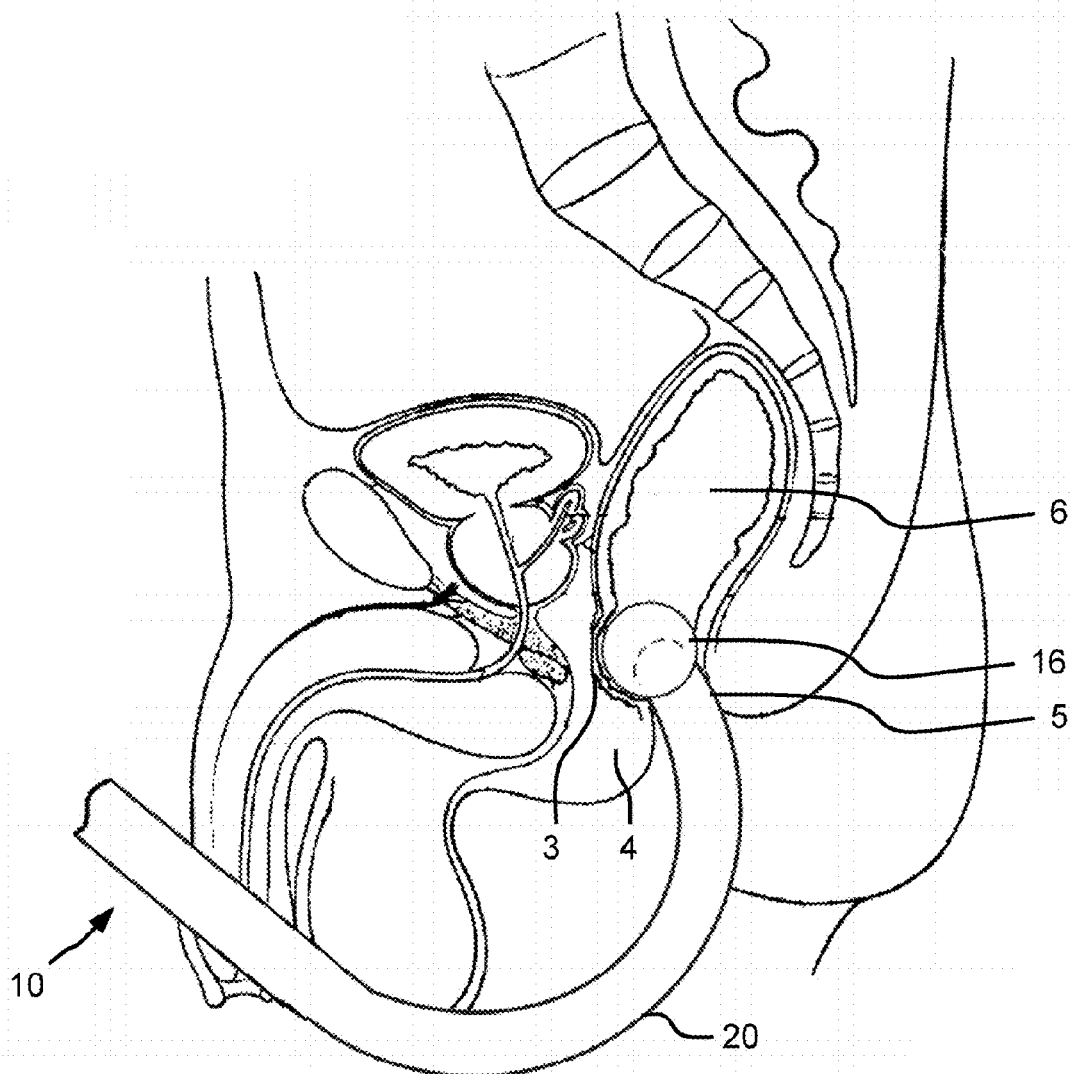


FIG. 3

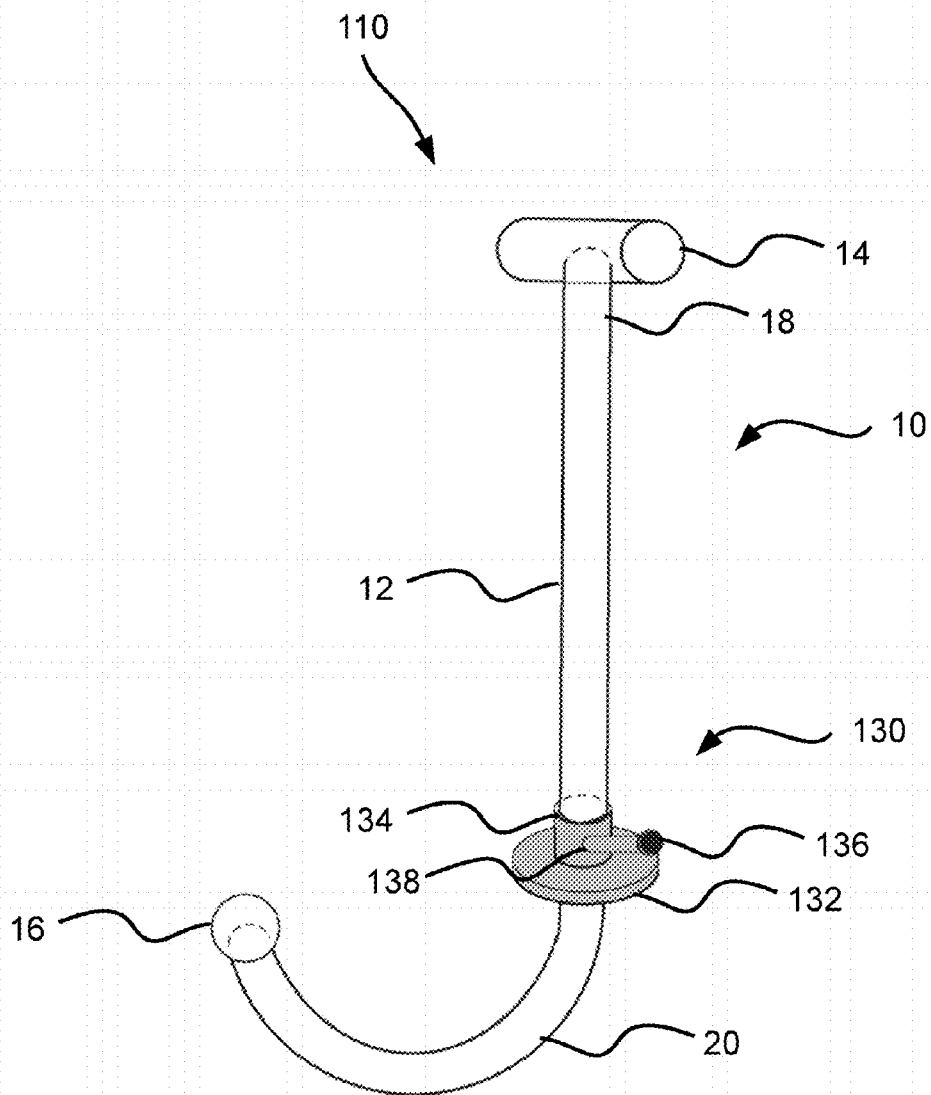


FIG. 4

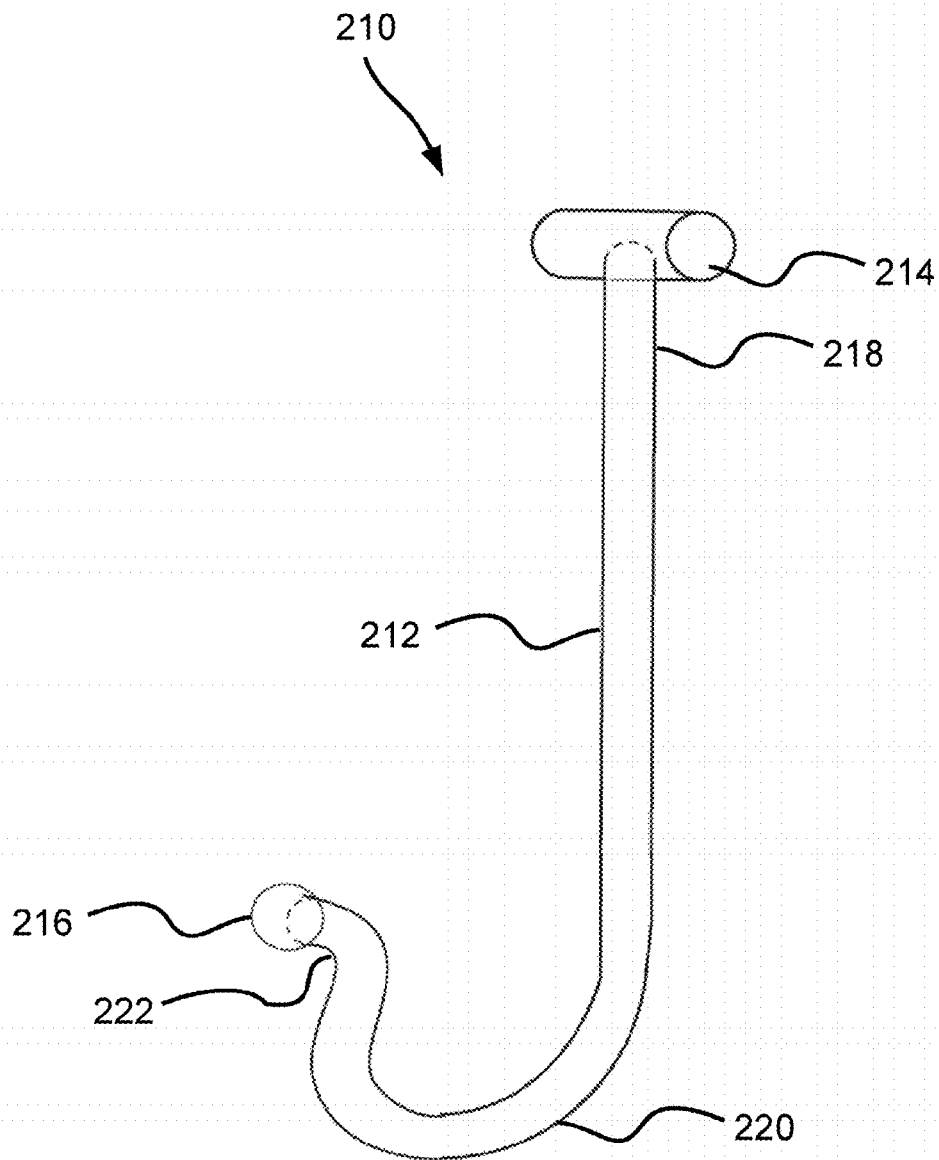


FIG. 5

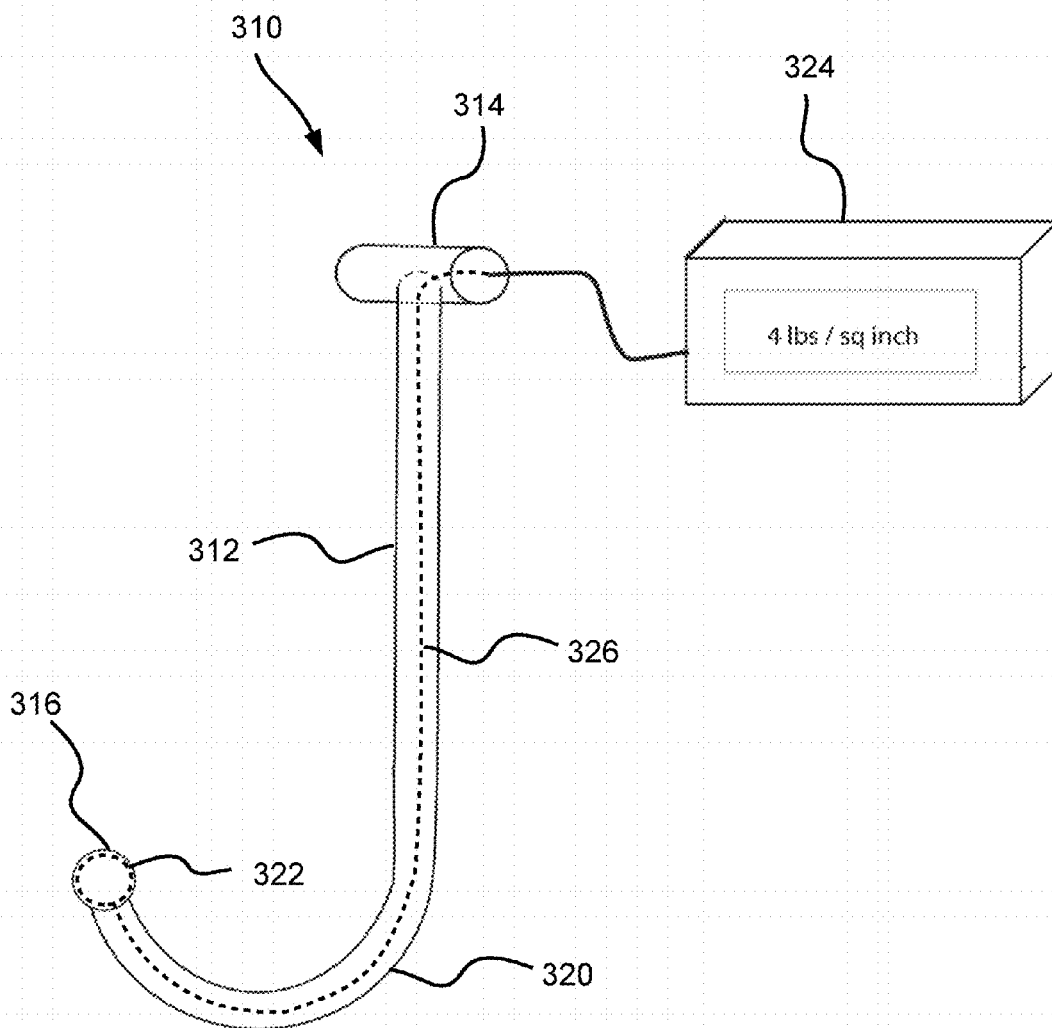


FIG. 6

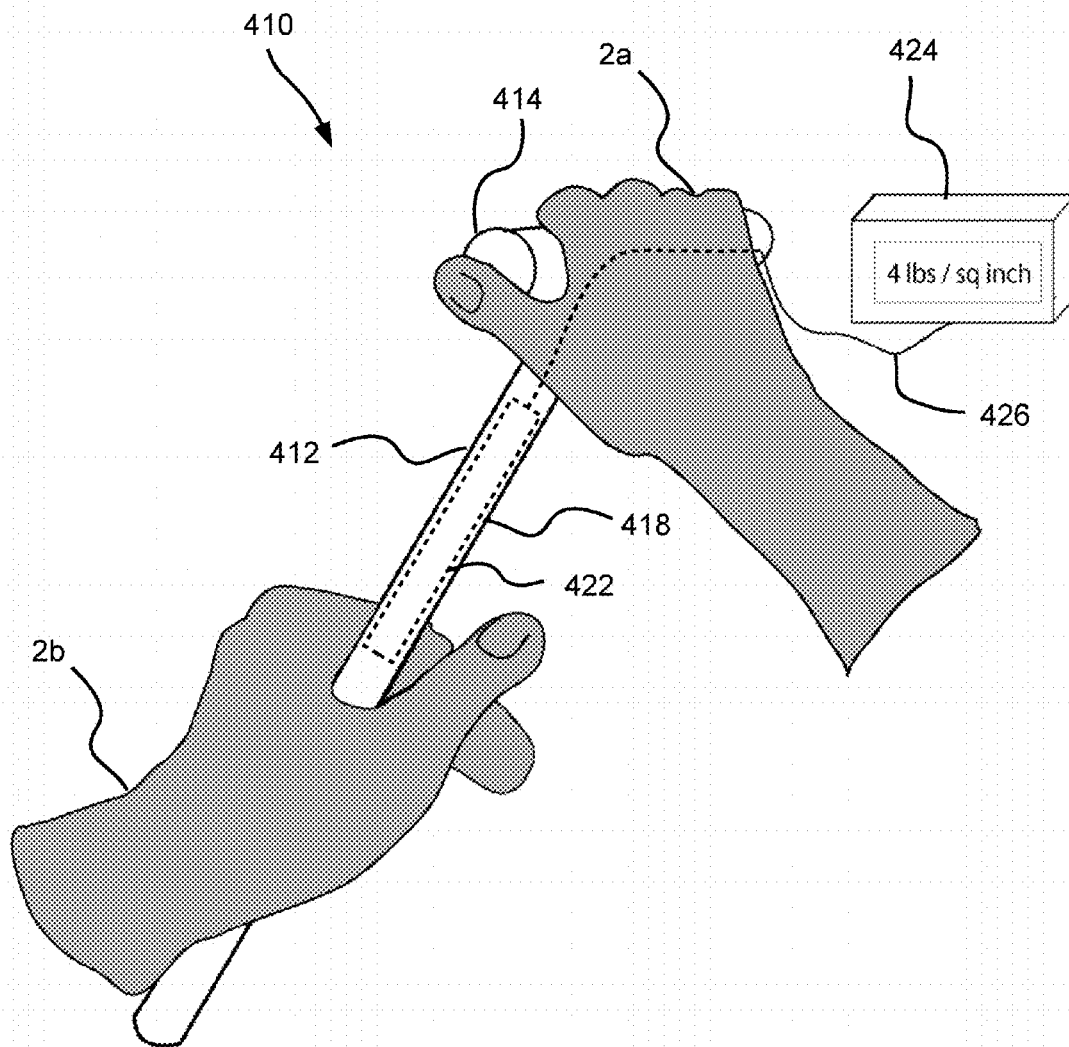


FIG. 7

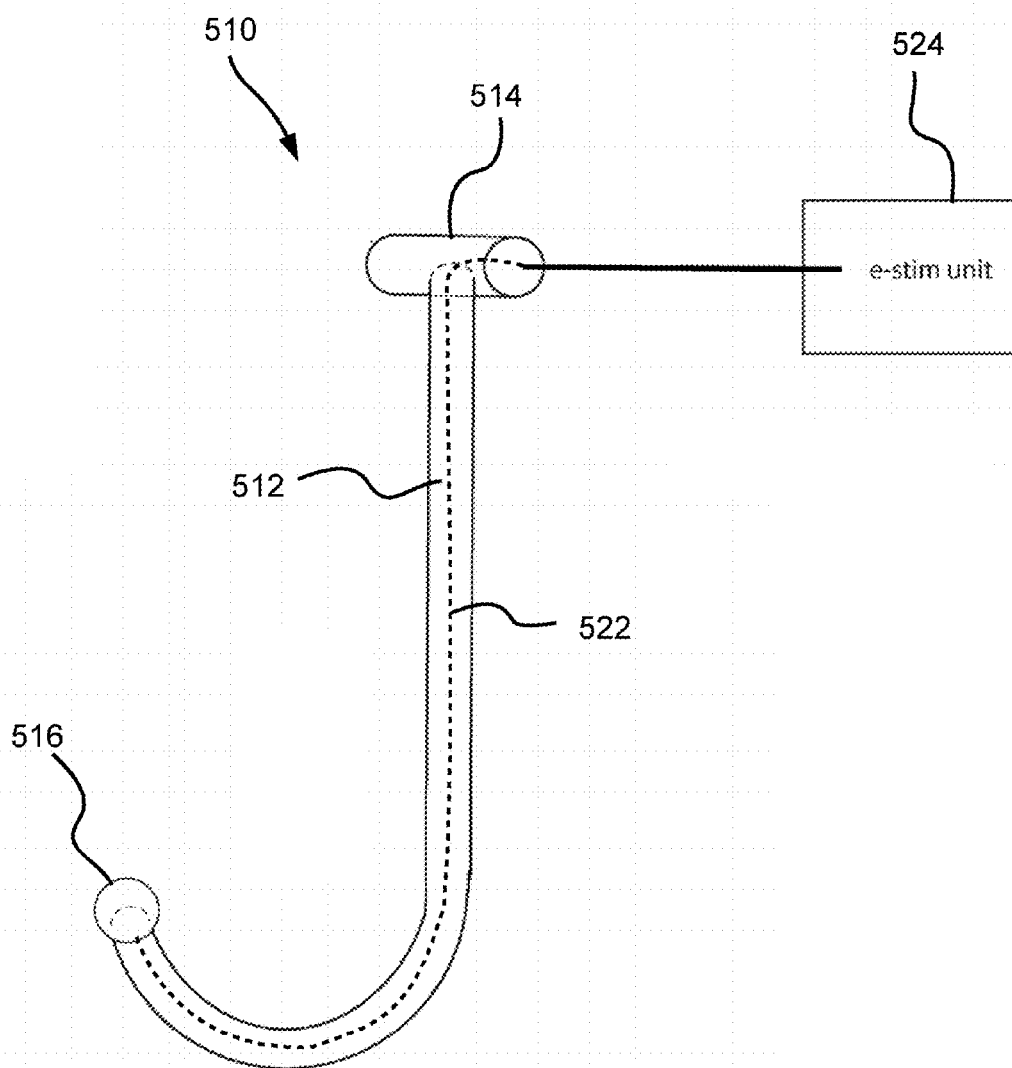


FIG. 8

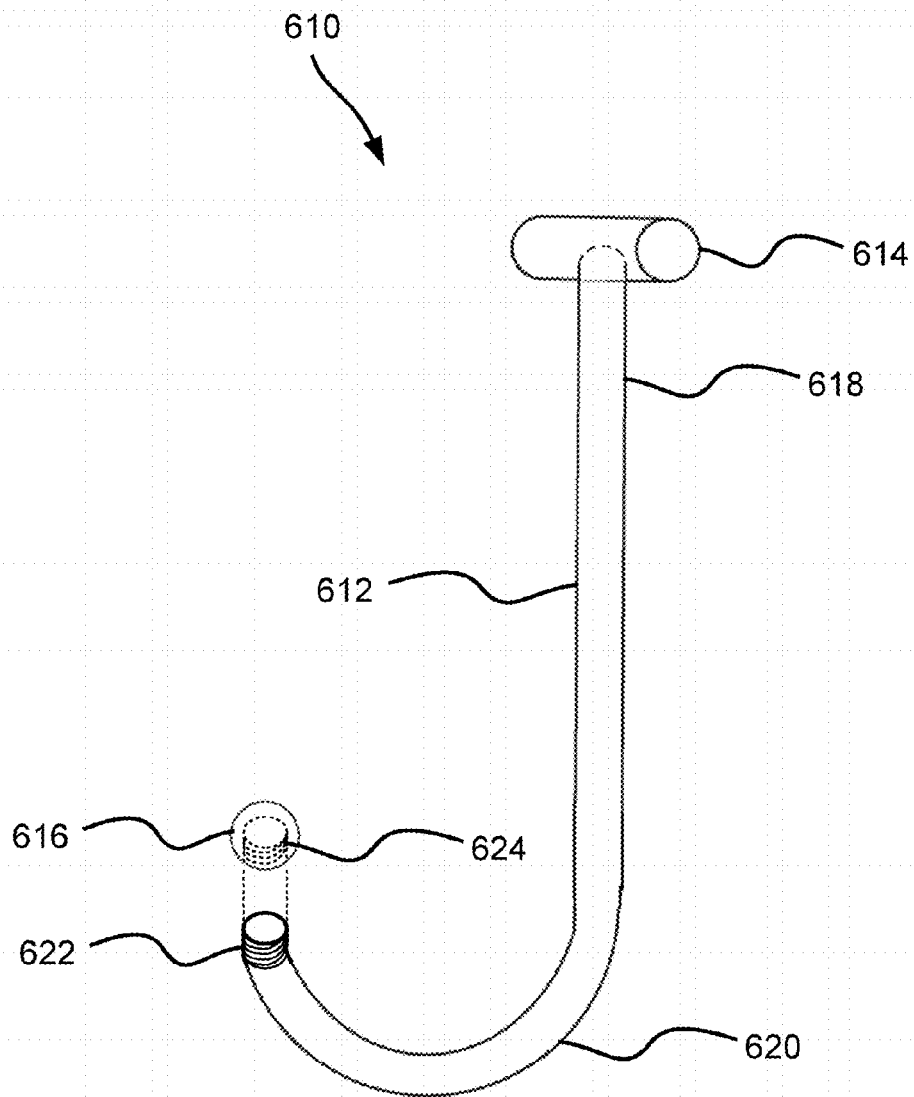


FIG. 9

1

METHOD AND APPARATUS FOR TREATING PELVIC PAIN

CROSS-REFERENCE TO RELATED APPLICATIONS

This application is a continuation of U.S. patent application Ser. No. 13/723,263, filed Dec. 21, 2012, now U.S. Pat. No. 8,632,482, which is a continuation of U.S. patent application Ser. No. 12/115,807, filed May 6, 2008, now U.S. Pat. No. 8,337,435, which claims the benefit of U.S. Provisional Patent Application No. 60/928,033, filed May 7, 2007.

FIELD OF THE INVENTION

The present invention relates to a method and apparatus for treating pelvic pain in women and men.

BACKGROUND OF THE INVENTION

Pelvic pain has long been a problem among women and men. Conventional medicine has treated pelvic pain in various ways including, 1) an organ-specific focus in which pelvic pain is believed to be a symptom of inflammation in the bladder, inflammation or infection in the prostate gland, or pathology of the uterus; 2) focus on the idea of the pudendal nerve being entrapped and needing release; 3) focus on an autoimmune process; or 4) focus supposed on psychiatric problems deriving from a fear of sexual activity, a propensity toward malingering, or neurotic somatization. While all of these treatments have failed to resolve the problem of pelvic pain, an example of one of these approaches is shown in U.S. Pat. No. 2,478,786, which shows a prostate gland massaging implement. In the field of urology, prostate massage derives from the goal of expelling the prostate fluid suspected of containing inflammatory or infectious pathogens, for treating urinary frequency, urgency, dysuria and other related symptoms of bacterial or inflammatory prostatitis.

The approaches described above are based on a misunderstanding of the nature of most cases of pelvic pain commonly diagnosed as prostatitis. In recent years, evidence has emerged that a large majority of pelvic pain in men and women is related to muscle dysfunction and muscle related pain. Understanding most cases of prostatitis and pelvic pain as muscle related pain is an entirely new paradigm in urology. This new understanding sees chronic tension in the pelvic muscles producing trigger points, or taut bands within muscles either at the surface of the muscle, inside the muscle, in the belly or the attachment of the muscle. These trigger points are rather like mini-spasms in muscle that refer pain to remote sites, and when pressed routinely recreate a patient's symptoms. When pressed in a specific way these trigger points can release, often attended by a significant reduction or abatement in pain and dysfunction. Trigger points have been found to be strongly exacerbated with anxiety and other perpetuating factors. Trigger point release, particularly for trigger points located on the outside of the body has become a subspecialty within medicine. The inventor of the present invention, David Wise, Ph.D., along with his colleague and coauthor Rodney Anderson, M.D., professor of urology at Stanford University, previously described techniques for identifying and manipulating trigger points in their book *A Headache in the Pelvis: A New Understanding and Treatment for Prostatitis and Chronic Pelvic Pain Syndromes*, which was originally published by the National Center for Pelvic Pain Research in 2003, and is incorporated herein in its entirety by reference.

2

The research of Wise, Anderson and Sawyer has discovered that daily trigger point release along with other methods provides the most effective relief for pelvic pain. Many pelvic pain patients do not have access to professionals competent in internal trigger point release, are not able to afford the ongoing level of treatment, or are not able to find the time necessary to receive trigger point release. Thus, many patients have an urgent need for ongoing trigger point release related to pelvic pain that remains unmet due to the financial and time related problems existing in conventional professional treatment of internal trigger points and to the scarcity of internal trigger point practitioners. Previously known self-treatment apparatuses have proven ineffective for internal trigger point release because they were designed for other purposes and not for internal trigger point release. Previous apparatuses have not had the structural design to enable the patient to locate the often hard to find internal trigger points, nor have they provided any assistance in applying the appropriate pressure to release the trigger point and, importantly, at the same time to cause no bleeding tissue damage or perforation.

Accordingly, need remains for a method and apparatus by which patients could treat their own internal trigger points, accessed either vaginally or rectally using trigger point release techniques, without need for a visit to a physician or therapist.

SUMMARY OF THE INVENTION

In accordance with the invention, an apparatus and method for treating pelvic pain is provided. The apparatus includes a rod or wand having a handle attached to a straight portion at a first end of the wand and a pressure applicator attached to a second end of the wand, where a first curved portion is disposed between the straight portion of the wand and the second end of the wand. The first curved portion may be substantially semicircular, and may define an arc of approximately 180 degrees.

In some embodiments, the apparatus includes a wand having a second curved portion disposed between the first curved portion and the second end of the wand. The second curved portion of the wand may form an angle between 45 to 90 degrees with respect to the first curved portion of the wand, and the first curved portion of the wand and the second curved portion of the wand may cooperate to define a reverse curve.

In other embodiments, the apparatus includes a stop or platform that is adjustably disposed on the wand for adjustably restraining insertion of the pressure applicator into the body cavity. The stop includes a flange that is engageable with an external surface of the patient's body and a collar that is disposed on the wand. A positioning element may be provided on the collar of the stop, the positioning element moveable between an engaged position, where the positioning element engages the wand to restrain movement of the stop with respect to the wand, and a disengaged position, where the positioning element does not engage the wand and does not restrain movement of the stop with respect to the wand. Furthermore, the positioning element may have a threaded aperture formed through the collar and a set screw receivable within the threaded aperture for engagement with the wand.

In some other embodiments, the apparatus may include a pressure sensor and a display electrically connected to the pressure sensor to display a pressure value. The pressure sensor may be disposed in the pressure applicator, or the pressure sensor may be disposed in the straight portion of the wand.

3

In yet another embodiment, the pressure applicator is fabricated from an electrically conductive material, the wand fabricated from a non-electrically conductive material, and the apparatus includes an electrical stimulation unit electrically connected to the pressure applicator for supplying electrical current to the pressure applicator.

In the method of the present invention, a trigger point is located in the patient's pelvic floor. With a lubricated glove or condom covering the distal end, the patient inserts the apparatus either vaginally or rectally to allow contact of the pressure applicator of the apparatus with one or more trigger points located on the pelvic floor, and pressure is applied to the trigger point using the apparatus in order to release the trigger point.

BRIEF DESCRIPTION OF THE DRAWINGS

The description herein makes reference to the accompanying drawings, wherein like reference numerals refer to like parts throughout the several views, and wherein:

FIG. 1 is an illustration showing a first embodiment of the apparatus for treating pelvic pain according to the invention;

FIG. 2 is an illustration showing use of the first embodiment of the apparatus for treating pelvic pain according to the invention by a user;

FIG. 3 is a partial cross section of the pelvis of the user showing engagement of the first embodiment of the apparatus for treating pelvic pain according to the invention with a myofascial trigger point;

FIG. 4 is a side view of a second embodiment of the apparatus for treating pelvic pain according to the invention;

FIG. 5 is a side view of a third embodiment of the apparatus for treating pelvic pain according to the invention;

FIG. 6 is a side view of a fourth embodiment of the apparatus for treating pelvic pain according to the invention;

FIG. 7 is a side view of a fifth embodiment of the apparatus for treating pelvic pain according to the invention;

FIG. 8 is a side view of a sixth embodiment of the apparatus for treating pelvic pain according to the invention; and

FIG. 9 is a side view of a seventh embodiment of the apparatus for treating pelvic pain according to the invention.

DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENT

Referring to FIGS. 1-3, there is shown an apparatus 10 in accordance with a first embodiment of the invention. The apparatus 10 includes a substantially j-shaped rod or wand 12, a handle member 14 connected to a first end of the wand 12, and a pressure applicator 16 connected to a second end of the wand 12. The handle member 14 and the pressure applicator 16 are connected to the wand 12 in any suitable conventional manner. The wand 12, the handle member 14, and the pressure applicator 16 may be fabricated from any suitable material, such as acrylic.

The wand 12 is a continuous member that has a straight portion 18 that extends from the handle member 14 for approximately ten inches before reaching a semicircular portion 20. The semicircular portion 20 defines an arc of approximately 180 degrees. However, it should be understood that the semicircular portion 20 need not be exactly semicircular, as long as it forms a generally u-shaped curve. The wand 12 may be either hollow or solid, as desired. The wand 12 is substantially slender member, having a diameter of, for example, three-eighths to one-half of an inch, such that the diameter of the wand 12 is large enough to provide sufficient strength to the apparatus 10 to allow the user to apply pressure using the

4

pressure applicator 16 without undue deformation of the apparatus 10. Furthermore, this dimension is considered critical in that the diameter of the wand 12 must be small enough so that rectal insertion of the apparatus 10 does not induce defecation when the wand 12 is inserted rectally by a patient and so that the uncomfortable sensation caused by insertion of the wand 12 does not overpower the patient's ability to sense engagement of the pressure applicator 16 of the apparatus 10 with a trigger point 3.

The pressure applicator 16 is a substantially spherical or semi-spherical member adapted for engagement with trigger points 3 in the pelvic floor 4, as will be explained herein. The pressure applicator 16 is sized similarly to the tip of a human index finger (not shown) and is between nine-sixteenths of an inch in diameter and one and one-quarter inches in diameter. Preferably, the pressure applicator 16 is approximately eleven-sixteenths of an inch in diameter, which allows effective, safe pressure to be applied to the trigger point 3 to cause palpation of the trigger point. This range of dimensions is considered critical in that pressure applicators 16 in larger sizes, such as one inch and seven-eighths of an inch in diameter were tested and found to be unsuitable, as these pressure applicators 16 did not allow sufficient pressure to be applied to trigger points and made locating trigger points 3 difficult. Conversely, pressure applicators 16 in smaller sizes make palpating the trigger points 3 difficult and can cause excessive pressure to be applied. Although shown and described herein as substantially spherical, it should be understood that the pressure applicator 16 could be provided in other non-spherical shapes.

The apparatus 10 is a device used for patient's self-treatment of pelvic pain to deactivate trigger points inside their own pelvic floor 4 by inserting the device vaginally or rectally. More particularly, the apparatus 10 of the first embodiment allows the user to access anterior trigger points (trigger points toward the front of the pelvic floor 4, closer to the belly than the back) and perform ischemic compression (pressure that squeezes the blood out of what is being pressed) on anterior trigger points. It is meant to enable the user to do pressure release, strumming, stroking and other methods of trigger point release on these internal pelvic trigger points and areas of restriction, usually associated with pelvic floor 4 pain, urinary and defecatory dysfunction, on the muscles of the levator ani, coccygeus, pubococcygeus, obturator internus, piriformis and other internally accessed trigger points. The apparatus 10 may also be used to stretch restricted, shortened, chronically contracted internal pelvic muscle tissue so that it elongates and reduces in its pain, soreness and ability to refer these sensations. Trigger point release using the apparatus 10 involves finding the internal trigger point 3, which is described in detail in the 4th edition of *A Headache in the Pelvis* and in Travell and Simon's book, *A Trigger Point Therapy Manual*, holding it and pressing on it for a period of 30-90 seconds to release it and reduce its ability to refer pain and symptoms to sites either remote from it or directly at the site of palpation.

The trigger point release aims to free the muscles in and around the pelvis of active trigger points 3 and to restore the muscles of the pelvic floor 4 to a flexible and lengthened state. The phenomenon of trigger points was introduced into medicine by Travell and Simon who published the first edition of *Myofascial Pain and Dysfunction: The Trigger Point Manual* in 1983, which was followed by a second edition in 1992. These books were the culmination of research that went back to 1942 when Dr. Travell published her first article on myofascial pain.

5

The concept of trigger points **3** is relatively new to medicine. Trigger points **3** are specifically defined herein as taut bands within a muscle, either at the surface of the muscle or inside the muscle, in the belly or at the attachment of the muscle. The trigger point **3** characteristically elicits a twitch response, detectable on ultrasound or via electromyograph (a machine that measures the electrical activity in a muscle in millionths of a volt), that can be felt by a trained practitioner while palpating the trigger point. When the trigger point is pressed, there is often a 'jump' response in the patient due to the reflexive reaction of the patient to the often exquisite tenderness of the trigger point upon palpation. Furthermore, the trigger point **3** characteristically refers pain/sensation to the site being pressed or to a site remote from it.

A trigger point **3** can be active or latent. An active trigger point **3** is considered able to refer pain and recreate that pain upon palpation when the patient comes in with a complaint of pain. A latent trigger point **3** has the capacity to be the source of pain (i.e., has the capacity to become an active one) and under certain circumstances, becomes active but generally the patient does not complain of symptoms from latent trigger points. Trigger points **3** are latent in many people. Trigger points **3** refer pain directly on the trigger point **3** site or to a remote site, which means that where pain is felt is often not where it actually is coming from. For instance, testicular pain is often referred from trigger points in the quadratus lumborum. This is not obvious and is anti-intuitive. This trigger point **3** can be around 8-10 inches away from the site of the discomfort. The internal muscles that contain trigger points **3** are often close to each other. The relationship between symptoms and the location of associated trigger points **3** is mostly found in Travell and Simon's textbooks.

Before using the apparatus **10**, the patient receives instruction on the use of the apparatus **10** by a qualified physician, osteopath, nurse, physical therapist or other designated professional. After receiving competent instruction, the user may use the apparatus **10** while sitting down on a toilet seat, in the lithotomy position lying down with the legs parted, a position commonly used in the gynecologist office when a doctor does a digital vaginal examination, or while the user lies on his or her side. The apparatus **10** is held in front of the patient's body, with the straight portion **18** of the wand **12** extending along the torso of the user's body, toward the user's head, and the pressure applicator is inserted, for example, through the rectal opening **5** and into the rectal cavity **6**. One of the user's hands **2a** holds the handle **14** and pushes away from the user's body, while the other hand **2b** holds the straight portion **18** of the wand **12** of the apparatus **10** near the semicircular portion **20** of the wand **12** and pulls it toward the body, thereby exerting pressure on the pressure applicator **16** of the apparatus **10** at a level of pressure of 1-12 lbs. as measured by the flexion of the straight rod at its tip as it engages the pelvic floor **4**, in order to access and palpate anterior trigger points **3**. A condom or rubber gloves are always placed over the tip of the apparatus **10** coming up 8-12 inches and sterile lubrication like KY Jelly® or Surgilube® is used to facilitate easy insertion and removal of the apparatus **10**.

All of the internal trigger points **3** must be thoroughly evaluated and treated. When trigger points **3** are located, they are held with pressure release using the apparatus **10** which involves pressing on a trigger point **3** with constant pressure, usually for a period of 30-90 seconds. So that the patient may readily measure the elapsed time during trigger point release, the apparatus may include a timer (not shown) on the wand **12** or the handle member **14** of the apparatus **10**.

Specific trigger points **3** in specific pelvic muscles tend to refer specific kinds of symptoms. For example, pain in the tip

6

of the penis or the sense of urgency and frequency is typically created by active trigger points **3** in the anterior (front) portion of the levator ani muscle. When a patient uses the apparatus **10**, knowledge of the relationship between symptoms and pelvic trigger points **3** is essential to be able to use the wand properly and instructions in the use of the apparatus **10** are part of its proper use and appropriate prescription by a physician or designated health care professional.

As shown in FIG. **4**, an apparatus **110** according to a second embodiment of the invention includes all of the elements of the apparatus **10** of the first embodiment as well as an adjustable platform or stop **130** that is disposed on the wand **12**. The adjustable stop **130** serves to limit the depth to which the user of the apparatus **110** may insert the pressure applicator **16** into the vagina or rectum.

This adjustable stop **130** allows the user to determine how far in to insert the wand **12** in order to accurately find and release internal pelvic floor **4** trigger points **3**. At first, the position of the adjustable stop **130** on the wand **12** is adjusted by a therapist who has mapped out the user's internal trigger points **3** and who is teaching the user how to locate, self-treat and release her or his own trigger points **3**. This is necessary since the locations of internal trigger points **3** are very difficult to discern, since patients are often incapable of accurately sensing the location of the pressure applicator **16** of the wand **12** once inserted. Thus, the user's doctor or therapist may determine the appropriate depth or depths at which the wand **12** needs to be inserted to access the trigger points **3** on which release will be performed by the patient. With the insertion depth fixed, the user may then identify the trigger point **3** location or locations more easily, since the range of motion of the pressure applicator **16** of the wand **12** is limited by engagement of the adjustable stop **130** with the exterior of the patient's body. Also, by using the adjustable stop **130**, the maximum depth of insertion of the wand **12** is limited, thereby reducing the risk of patient injury, such as tissue bleeding, damage or internal organ perforation.

The adjustable stop **130** includes a flange **132** that extends radially outward from a collar **134** that is slidably disposed upon the wand **12**. The flange **132** lies substantially perpendicular to the longitudinal axis of the wand **12**, and is adapted to engage the exterior of the user's body to restrain the apparatus **110** against further insertion. The collar **134** is substantially tubular, and has an internal diameter complementary to the external diameter of the wand **12**. A positioning element **136**, such as a set screw, extends through a threaded aperture **138**. The positioning element **136** moves between an engaged position, where the positioning element **136** engages the wand **12** to restrain movement of the adjustable stop **130** with respect to the wand **12**, and a disengaged position, where the positioning element **136** does not engage the wand **12** and the adjustable stop **130** is not restrained from moving with respect to the wand **12**. Thus, when the positioning element **136** of the adjustable stop **130** is in the disengaged position, the adjustable stop **130** may be slid along the wand **12** to any desired location on the straight portion **18** or the semicircular portion **20** of the wand **12**. Then, when the adjustable stop **130** is in a desired position, the positioning element **136** may be moved to the engaged position to lock the adjustable stop **130** in the desired position.

As shown in FIG. **5**, an apparatus **210** according to a third embodiment of the invention includes a wand **212** having a primary curved portion **220** that is similar to the semicircular portion **20** of the apparatus **10** of the first embodiment, as well as a secondary curved portion **222** that is disposed between the primary curved portion **220** of the wand **212** and a pressure applicator **216** that is similar to the pressure applicator **16**

7

of the apparatus 10 of the first embodiment. The primary curved portion 220 forms a generally u-shaped curve and may be substantially semicircular. The apparatus 210 also includes a handle 214 that is connected to a straight portion 218 of the wand 212. The handle 214 and the straight portion 218 are similar to the handle 14 and straight portion 18 of the apparatus 10 of the first embodiment.

The secondary curved portion 222 of the wand 212 is positioned along the wand so that it is disposed internally when the pressure applicator 216 is engaged with a trigger point 3. The secondary curved portion forms an angle between 45 to 90 degrees with respect to the primary curved portion 220, and the primary curved portion 220 and the secondary curved portion 222 may cooperate to define a reverse curve.

By providing the secondary curved portion 222 on the wand 212, the user may engage the pressure applicator 216 with posterior trigger points 3 (trigger points 3 located toward the back of the body, closer to the back than the belly), such as trigger points 3 on the coccygeus muscles, to perform ischemic compression, milking, or strumming of those trigger points 3.

As shown in FIG. 6, an apparatus 310 according to a fourth embodiment of the invention includes a pressure sensor (allogometer) 322 that is disposed within a pressure applicator 316. The wand 312, the handle 314, and the pressure applicator 316 are similar to the wand 12, the handle 14, and the pressure applicator 16 of the apparatus 10 of the first embodiment, respectively.

The pressure sensor 322 may be any conventional sensor operable to output an electrical signal corresponding to a sensed pressure value, and thus, the pressure sensor 322 is operable to detect the pressure applied to the trigger point 3 by the pressure applicator 316 of the wand. To provide information regarding the pressure applied by the pressure applicator 316 to the user, the pressure sensor 322 is electrically connected to a display 324 by a cable 326. The display 324 is a conventional digital or analog device operable to display a measured value corresponding to the measurement made by the pressure sensor 322 and thus allows the pressure applied by the pressure applicator 316 to be monitored by the patient during use of the apparatus 310. The display 324 may be disposed external to the wand 312 and the handle 314 in a separate housing, and the cable 326 may extend through the wand 312 and out of the handle 314 to the display 324. Alternatively, the display 324 may be disposed on the straight portion 318 of the wand 312 or on the handle 314. Provision of the pressure sensor 322 and the display 324 allows the patient to apply the amount of pressure to the trigger point 3 prescribed by the patient's doctor or therapist, thereby facilitating effective, safe trigger point 3 release.

As shown in FIG. 7, an apparatus 410 according to a fifth embodiment of the invention includes a flexible pressure sensor 422 that is disposed within a straight portion 418 of a wand 412, adjacent to a handle 414. The flexible pressure sensor 422 is, for example, a flexible bend sensor that produces a changing output signal, such as resistance, as the degree of bending of the sensor occurs. Thus, the flexible pressure sensor 422 is an elongated body that is disposed within or embedded within the handle 414. The flexible pressure sensor 422 is electrically connected to a display 424 by a cable 426, which are similar to the display 324 and cable 326 of the apparatus 310 of the fourth embodiment, respectively. During use of the apparatus 410, the user places a first hand 2a on the handle 414 of the apparatus 410, and a second hand 2b on the straight portion 418 of the wand 412. Thus, when pressure is applied to the trigger point 3 using the pressure

8

applicator 16 (not shown in FIG. 7), a deflection is induced in the straight portion 418 of the wand 412. This deflection is measured by the flexible pressure sensor 422 and, since it corresponds to the pressure applied by the pressure applicator 16, is converted to a pressure reading and output on the display 424.

As shown in FIG. 8, an apparatus 510 according to a sixth embodiment of the invention includes an electrical stimulation unit 524. The wand 512, the handle 514, and the pressure applicator 516 are similar to the wand 12, the handle 14, and the pressure applicator 16 of the apparatus 10 of the first embodiment, respectively. However, the wand 512 of the apparatus 510 is fabricated from a non-electrically conductive material, such as acrylic, while the pressure applicator 516 is fabricated from an electrically conductive material. The electrical stimulation unit 524 is disposed external to the wand 512 and the handle 514, and is electrically connected to the pressure applicator 516 by a cable 522 that extends through the wand 512 and out of the handle 514. The electrical stimulation unit 524 is a conventional unit that is adapted to provide electrical current for electrical stimulation of muscles. Thus, the pressure applicator 516 may apply both pressure and electrical stimulation to the trigger point 3 using the electrical stimulation unit 524.

As shown in FIG. 9, an apparatus 610 according to a seventh embodiment of the invention includes a removable pressure applicator 616. The wand 512, the handle 514, and the pressure applicator 516 are similar to the wand 12, the handle 14, and the pressure applicator 16 of the apparatus 10 of the first embodiment, respectively. However, a threaded portion 622 is provided at the distal end of the curved portion 620 of the wand 612, and a threaded recess 624 is provided on the pressure applicator 616. Thus the pressure applicator 616 may be threadedly connected and disconnected from the wand 612. By providing a selectively detachable pressure applicator 616, a plurality of pressure applicators 616 may be provided having various diameters ranging between nine-sixteenth of one inch in diameter and one and one-quarter inches in diameter. Thus, the patient may utilize the apparatus with a larger diameter pressure applicator 616 when the trigger point 3 is near the surface, and may utilize a smaller diameter pressure applicator 616 when the trigger point 3 is located deep within the patient's muscles.

Use of the apparatuses of the second through seventh embodiments is performed in substantially the same manner as described in connection with the first embodiment. Of course, it should be understood that the features of the above embodiments may be combined. For example, an apparatus could be provided having the adjustable stop 130 according to the second embodiment, the primary curved portion 220 and the secondary curved portion 222 as demonstrated in the third embodiment, as well as the flexible pressure sensor 422 and the display 424 of the fourth embodiment.

While the invention has been described in connection with what is presently considered to be the most practical and preferred embodiment, it is to be understood that the invention is not to be limited to the disclosed embodiments, but to the contrary, it is intended to cover various modifications or equivalent arrangements included within the spirit and scope of the appended claims. The scope is to be accorded the broadest interpretation so as to encompass all such modifications and equivalent structures as is permitted under the law.

What is claimed is:

1. A hand-held internal therapeutic massager device for manually providing direct pressure to a localized area of myofascial tissue, the hand-held internal therapeutic massager device comprising:

9

- a rod having a first portion that defines a curve and a second portion that is substantially straight;
 - a handle located on the second portion of the rod;
 - a pressure applicator located on the first portion of the rod, wherein the pressure applicator is adapted to be inserted into a patient's body cavity for engagement with the localized area of myofascial tissue;
 - a stop that is slidably disposed on the rod to adjust an insertion depth of the pressure applicator with respect to the patient's body cavity, the stop having an opening that extends through the stop and a surface that extends outward from the opening, wherein the rod passes through the opening, the stop is engageable with an external surface of the patient's body, and the stop includes a positioning element that is moveable between an engaged position in which the positioning element engages the rod to restrain movement of the stop with respect to the rod and a disengaged position in which the positioning element does not engage the rod and does not restrain movement of the stop with respect to the rod; and
 - a pressure sensor for measuring pressure applied to the localized area of myofascial tissue by the pressure applicator.
2. The hand-held internal therapeutic massager device of claim 1, wherein the second portion of the rod is approximately ten inches long.
 3. The hand-held internal therapeutic massager device of claim 1, wherein the first portion of the rod defines a u-shaped curve.
 4. The hand-held internal therapeutic massager device of claim 1, wherein the first portion of the rod defines a substantially circular curve.

10

5. The hand-held internal therapeutic massager device of claim 1, wherein the rod has a diameter that is between three eighths of an inch and one half of an inch.
6. The hand-held internal therapeutic massager device of claim 1, wherein the pressure applicator is between nine-sixteenths of an inch and one and one quarter inches in diameter.
7. The hand-held internal therapeutic massager device of claim 1, wherein the first portion of the rod defines a curve of one hundred and eighty degrees.
8. The hand-held internal therapeutic massager device of claim 1, wherein the pressure applicator is substantially spherical.
9. The hand-held internal therapeutic massager device of claim 1, wherein the pressure applicator is at least semi-spherical.
10. The hand-held internal therapeutic massager device of claim 1, wherein the positioning element is a threaded element that is received in a threaded aperture of the stop.
11. The hand-held internal therapeutic massager device of claim 1, wherein the pressure sensor outputs a signal that represents the pressure applied to the localized area of myofascial tissue by the pressure applicator.
12. The hand-held internal therapeutic massager device of claim 11, further comprising:
 - a display electrically connected to the pressure sensor to display a value based on the signal output by the pressure sensor.
13. The hand-held internal therapeutic massager device of claim 12, wherein the display is disposed in a housing that is separate from the rod, the handle, and the pressure applicator.
14. The hand-held internal therapeutic massager device of claim 12, wherein the pressure sensor is connected to the display by a cable that extends through the rod.

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